

WHAT IS CLAIMED IS:

1. A recording apparatus which is directly connected to an image supply device via a communication interface, and records image data transmitted from the image supply device, comprising:
 - reception means for receiving a recording request from the image supply device;
 - acquisition means for acquiring an amount of image data to be supplied from the image supply device upon reception of the recording request by said reception means;
 - determination means for determining whether to be able to receive at once the amount of image data acquired by said acquisition means and process the image data; and
 - control means for controlling to receive segmented image data from the image supply device a plurality of number of times in a case where said determination means determines that the image data cannot be processed at once.
2. The apparatus according to claim 1, wherein said determination means determines on the basis of a comparison between a free space of a memory which stores data of the recording apparatus and the amount of image data.

3. The apparatus according to claim 1, wherein in a case where said determination means determines that the image data cannot be processed at once, said control means designates an address of the image data stored in 5 the image supply device and an amount of image data to be sent, and requests the image data stored in the image supply device.

4. A recording apparatus which is directly connected 10 to an image supply device via a communication interface, and records image data transmitted from the image supply device, comprising:

reception means for receiving a recording request from the image supply device;

15 acquisition means for acquiring image file information to be supplied from the image supply device upon reception of the recording request by said reception means;

determination means for determining whether a 20 thumbnail image is contained in the image file information acquired by said acquisition means; and

control means for controlling to receive the thumbnail image from the image supply device in a case where said determination means determines that the 25 thumbnail image is contained and index recording is designated.

5. The apparatus according to claim 4, wherein the communication interface includes a USB.
6. The apparatus according to claim 4, wherein the 5 image supply device includes a digital camera.
7. A recording system in which an image supply device and a recording apparatus are directly connected via a communication interface, and image data is 10 transmitted from the image supply device to the recording apparatus and recorded, comprising:
 - acquisition means for inquiring, of the image supply device by the recording apparatus, an amount of image data to be supplied from the image supply device 15 and acquiring the amount of image data in a case where a recording request is transmitted from the image supply device to the recording apparatus;
 - determination means for determining whether to be able to receive at once the amount of image data 20 acquired by said acquisition means and process the image data; and
 - control means for controlling to segment the image data to be sent and transmit segmented image data from the image supply device to the recording apparatus 25 a plurality of number of times in a case where said determination means determines that the image data cannot be processed at once.

8. The system according to claim 7, wherein said determination means determines on the basis of a comparison between a free space of a memory which stores data of the recording apparatus and the amount 5 of image data.

9. The system according to claim 7, wherein when said determination means determines that the image data cannot be processed at once, said control means 10 designates, from the recording apparatus, an address of the image data stored in the image supply device and an amount of image data to be sent, and requests image data stored in the image supply device.

15 10. A recording system in which an image supply device is directly connected to a recording apparatus via a communication interface, and image data transmitted from the image supply device is recorded by the recording apparatus, comprising:

20 acquisition means for inquiring, of the image supply device by the recording apparatus, image file information to be supplied from the image supply device and acquiring the amount of image data, in a case where a recording request is received from the image supply 25 device; and

determination means for determining whether a thumbnail image is contained in the image file

information acquired by said acquisition means,

wherein in a case where said determination means determines that the thumbnail image is contained and index recording is designated, the recording apparatus 5 receives the thumbnail image from the image supply device and records the thumbnail image.

11. The system according to claim 10, wherein the communication interface includes a USB.

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12. A control method in a recording system in which an image supply device and a recording apparatus are directly connected via a communication interface, and image data is transmitted from the image supply device 15 to the recording apparatus and recorded, comprising:

a transmission step of transmitting a recording request from the image supply device to the recording apparatus;

an acquisition step of acquiring an amount of 20 image data to be supplied from the image supply device in response to the recording request;

a determination step of determining whether to be able to receive at once the amount of image data acquired in said acquisition step and process the image 25 data; and

a control step of controlling to segment the image data and transmit the segmented image data from

the image supply device to the recording apparatus a plurality of number of times, in a case where it is determined the image data is not to able to be processed in said determination step,

5 wherein when the recording apparatus receives the segmented image data a plurality of number of times, the recording apparatus records each segmented image data.

10 13. A control method in a recording system in which an image supply device and a recording apparatus are directly connected via a communication interface, and image data is transmitted from the image supply device to the recording apparatus and recorded, comprising:

15 a transmission step of transmitting a recording request from the image supply device to the recording apparatus;

 an acquisition step of acquiring image file information to be supplied from the image supply device 20 in response to the recording request;

 a determination step of determining whether a thumbnail image is contained in the image file information acquired in said acquisition step;

25 a request step of requesting the thumbnail image of the image supply device in a case where it is determined that the thumbnail image is contained and the recording apparatus designates index recording in

said determination step; and

 a recording step of performing index recording on
 the basis of the thumbnail image received from the
 image supply device.

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14. A communication apparatus which receives data
 from an image supply device via a communication
 interface, comprising:

 acquisition means for, upon reception of a data
10 transmission request from the image supply device,
 acquiring information on transmission target data
 corresponding to the transmission request;

 decision means for deciding, in accordance with
 the information acquired by said acquisition means,
15 whether to segment the transmission target data and
 receive the transmission target data a plurality of
 number of times or to receive the transmission target
 data at once; and

 segmentation process means for, when said
20 decision means decides to segment the transmission
 target data and receive the segmented transmission
 target data a plurality of number of times, requesting
 partial data of the image supply device a plurality of
 number of times, and receiving and processing the
25 transmission target data of each partial data.

15. The apparatus according to claim 14, wherein the

communication interface includes a USB, the image supply device includes a USB slave, and the communication apparatus includes a USB host.

5 16. The apparatus according to claim 14, wherein, based on a data size of the transmission target data contained in the information, said decision means decides whether to segment the transmission target data and receive the segmented transmission target data a 10 plurality of number of times or to receive the transmission target data at once.

17. The apparatus according to claim 14, wherein, based on an attribute of the transmission target data 15 contained in the information, said decision means decides whether to segment the transmission target data and receive the segmented transmission target data a plurality of number of times or to receive the transmission target data at once.

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18. The apparatus according to claim 14, wherein said segmentation process means presents progress of acquiring the segmented transmission target data, on the basis of a total acquisition count of the segmented 25 transmission target data and an acquisition count of actually acquired segmented transmission target data.

19. A communication control method in a communication apparatus which receives data from an image supply device via a communication interface, comprising:
 - an acquisition step of, upon reception of a data transmission request from the image supply device, acquiring information on transmission target data corresponding to the transmission request;
 - a decision step of deciding, in accordance with the information acquired in said acquisition step, whether to segment the transmission target data and receive the segmented transmission target data a plurality of number of times or to receive the transmission target data at once; and
 - a segmentation process step of, in a case where it is decided that the transmission target data is to be segmented and received a plurality of number of times in said decision step, requesting segmented data of the image supply device a plurality of number of times, and receiving and processing the transmission target data of each segmented data.
20. The method according to claim 19, wherein the communication interface includes a USB, the image supply device includes a USB slave, and the communication apparatus includes a USB host.
21. The method according to claim 19, wherein in said

decision step, it is decided whether to segment the transmission target data and receive the segmented transmission target data a plurality of number of times or to receive the transmission target data at once, on 5 the basis of a data size of the transmission target data contained in the information.

22. The method according to claim 19, wherein in said decision step, it is decided whether to segment the 10 transmission target data and receive the segmented transmission target data a plurality of number of times or to receive the transmission target data at once on the basis of an attribute of the transmission target data contained in the information.

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23. The method according to claim 19, wherein in said segmentation process step, progress of acquiring the segmented data is presented on the basis of a total acquisition count of the segmented data and an 20 acquisition count of actually acquired segmented data.

24. A program which executes a communication control method defined in claim 19.

25 25. A computer-readable storage medium which stores a program for executing a communication control method defined in claim 19.